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 E2A AAR ACSG A100 A110 A118 A119 A423  
 A508 A509 A510  
 A4X XU25  
 U1S S2296

(56) Documents cited  
 GB 2060473 A GB 1534271 A GB 0831721 A  
 US 4836425 A US 4557457 A

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(54) Wall mounted security fitting

(57) The specification concerns embodiments of a security fitting for wall mounted objects, e.g. framed pictures, clocks, signs able to combine both the hanging and security functions.

As shown each fitting comprises a main body with a keyhole slot and optionally a circlip clipped around the circumference of the main body, and the body or circlip is rotatable through 90° to 180° to achieve locking.

By means of an eccentric keyhole slot, horizontal adjustment is possible.

fig 3

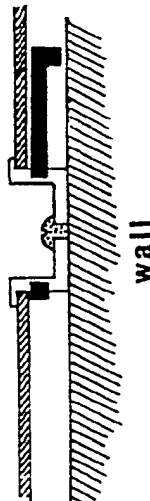


fig 4

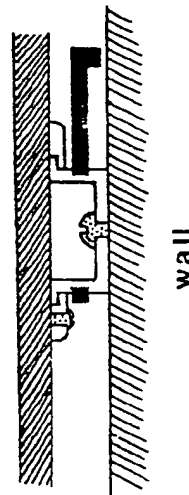
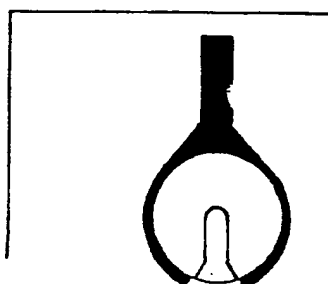
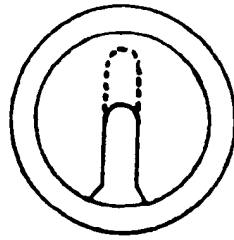


fig 5



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fig 1 (i)



(ii)

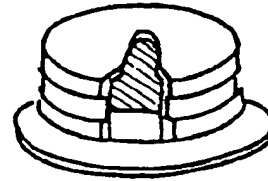


fig 2 (i)



(ii)



fig 3

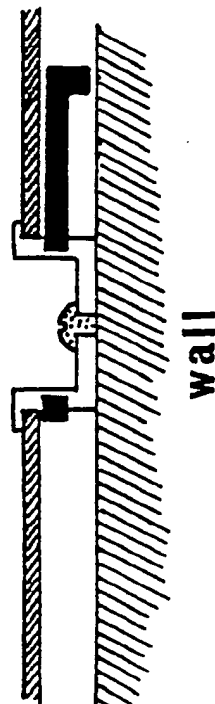
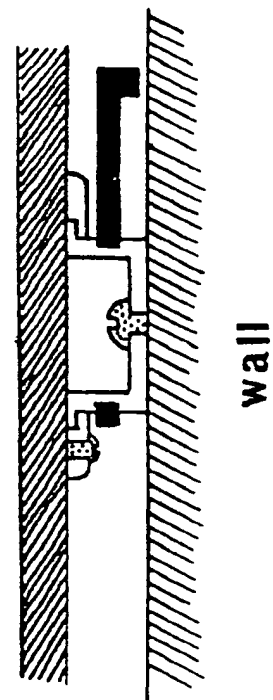


fig 4



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fig 5

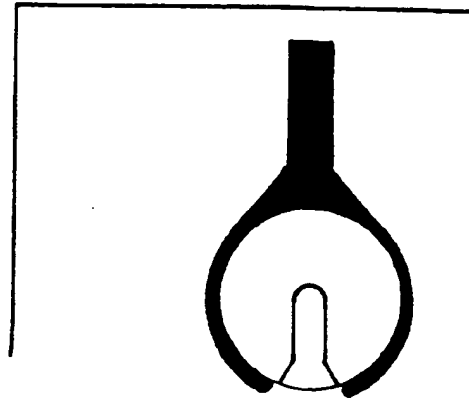


fig 6

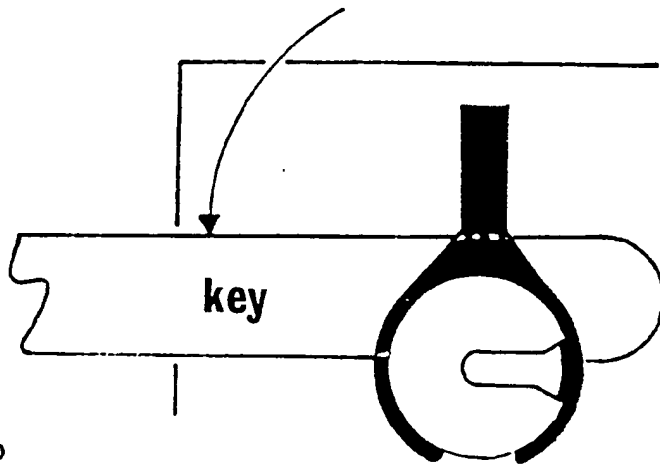
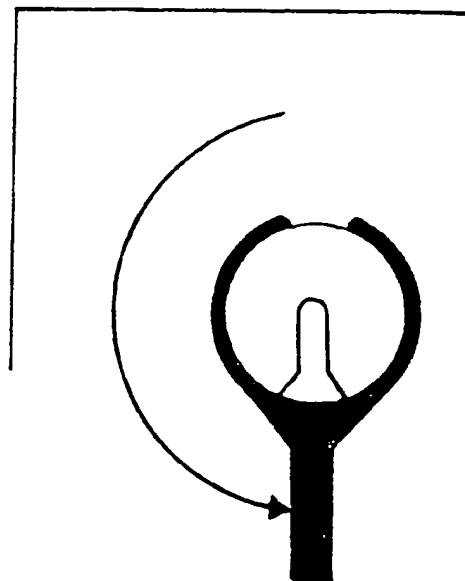


fig 7



- - WALL MOUNTING SECURITY FITTING

This invention relates to a security fixing for framed pictures and other wallmounted items.

Traditional methods of hanging pictures, signs, wall clocks and other wallmounted items offer no form of theft prevention. This invention is designed to provide a practical and versatile solution to that deficiency.

A fixing comprising a hat shaped body (and rim) with a keyhole type slot providing access and subsequent containment of a screw head. A grooved indentation around the waist of the body retains an optional racket shaped circlip -allowing independent circular movement of the circlip.

Security locking is achieved by rotating the body and/or the circlip.

General Note:::- The above description provides for a concentric movement of the main body see Fig 1 due to the central location of the screw head in the centre of the body. Design provision is also made for the keyhole slot to be extended in manufacture thus creating an eccentric movement of the body on the wall fixing screw head. ie a horizontal line adjustment facility for pictures or other wall hung items.

A specific embodiment of the invention will now be shown with reference to the accompanying drawings:-

Figure 1. shows (i) plan view of body illustrating provision for keyhole slot to be extended as and when eccentric movement is to be incorporated in the alternative design

(ii) oblique view of fitting body.

Figure 2. shows (i) plan view of circlip

(ii) oblique view of circlip

Figure 3. illustrating integral mounting of fitting

Figure 4. illustrating surface mounting with collar

(Figure 5, 6 & 7 depict fitting section as seen from a vertical line through the picture or other item to be hung )

Figure 5. illustrating circlip positioned round body

Figure 6. illustrating method of rotating body with key

Figure 7. illustrating movement of circlip

Referring to the drawing each Security Fitting unit comprises a main body and a circlip which is clipped round the circumference of the main body.

There are several methods of application (fixings normally used in pairs).

#### A DOUBLE LOCK SYSTEM

A system where the main body is able to revolve freely.

1. Integral fixing where the fixing body projects through a hole drilled in the backing material of the picture frame or other item to be hung and the circlip is clipped round the circumferencial slot, see Fig 3.

2. Surface fixing where the body is retained by use of a collar or suchlike which is affixed to rear of the picture or other item to be hung, see Fig 4.

For both 1 and 2 options the body's keyhole slot is positioned downwards with the circlip tail pointing directly upwards, see Fig 5. The picture frame or other item to be hung is lowered onto screws projecting from and fixed into the wall; using a key or suitable tool each body is rotated through 90 degrees with the circlip kept in the vertical position. Double locking is thus achieved, see Fig 6.

#### B SINGLE LOCK SYSTEM

1. Where the main body is able to revolve freely, the body can be used on its own (ie without circlip) assuming that two or more fittings are used.

Proceed as in Fig 5 & 6 (rotating each body through 90 degrees - ensuring that the keyhole slots face in opposed directions when used in tandem).

2. When the body is fixed to the object to be mounted (for example with glue or staple) thus preventing body rotation, single locking can be achieved by fixing the body of the security fitting in position as shown in Fig 5.

The picture or other wall mounted item is lowered onto the screwheads projecting from the wall with keyhole slot pointing directly downwards and the circlip is rotated through 90 to 180 degrees as in Fig 7.

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# CLAIMS

1. A new design of wall hanging fitting which combines both security and hanging functions
2. A Single and /or Double locking device which operates by means of the fitting bodys rotation through 90 degrees and /or circlip,as in claim 1.
3. Provision for a horizontal adjustment to pictures or other wall mounted items by means of an eccentric keyhole slot, as in claim 1.